



# aircreeen<sup>TM</sup> tality|edge

Professional Edge QAM Modulator

aircreeen Tality<sup>TM</sup> Edge is a next generation Edge QAM modulator designed to meet the growing demand for content distribution over cable networks. It supports multiplexing and scrambling with dense IP input and up to 32/64 QAM output channels. The aircreeen Tality<sup>TM</sup> Edge features a modular and 1RU compact design with a web UI for easy setup and configuration, making it an ideal solution for cost-effective program redistribution allowing operators to rollout and expand broadcast TV and VoD services across their network, quickly, easily and efficiently.

## Product Features:

- High-density, 1.6Gbps/3.2Gbps IP input and up to 32/64 QAM output channels
- Independent selection of each QAM frequency
- Available for all QAM modulation standards (64 & 256 QAM for ITU-A, B & C)
- Up to 512/1024 TS/IP input streams (unicast and multicast)
- Low power consumption



**airscreen Tality™ Edge available items:**

Item	Description	Model
6071	airScreen Tality™ Edge QAM modulator – 1.6Gbps IP input, up to 32 QAM output channels, with single AC power supply	IDLA-EQAMO2-32A16-OPW
6072	airScreen Tality™ Edge QAM modulator – 3.2Gbps IP input, up to 64 QAM output channels, with single AC power supply	IDLA-EQAMO2-64A32-OPW
6073	airScreen Tality™ Edge QAM modulator – 3.2Gbps IP input, up to 64 QAM output channels, with dual -48V DC power supply	IDLA-EQAMO2-64D32-DPW
6074	airScreen Tality™ Edge -48V DC power adaptor	IDLA-EPSUO2-48VDC-OPW
6076	airScreen Tality™ Edge QAM modulator – 3.2Gbps IP input, up to 64 QAM output channels, with dual 220V AC power supply units	IDLA-EQAMO2-64A32-DPW

**Technical specifications:**

IP Input	
Interface	2x100/1000Mbps ports (Item 6071) 4x100/1000Mbps ports (Item 6072, 6073, 6076)
IP Encapsulation	MPEG TS over UDP/RTP
MPEG TS	MPTS and SPTS
I/O Processing	Up to 512 channels (Item 6071) Up to 1024 channels (item 6072, 6073, 6076)
Addressing	Unicast and multicast
IGMP Version	IGMP v2, IGMP v3

QAM Output	
Output	32xQAM output channels (Item 6071) 64xQAM output channels (item 6072, 6073, 6076)
Standard	ITU-T J.83 Annex A/B/C
QAM Constellation	64/256 QAM
Output Level	90~115dBuV depending on the number of output channels
Output Frequency Range	QAM A/C: 57~858MHz QAM B: 108~858MHz
Channel Bandwidth	6/7/8MHz
MER	≥40dB (equalized)
PCR Correction	Support

Multiplexing	
Table Supported	SI/PSI
PID Processing	Pass-through, remapping, filtering
EIT Processing	Pass-through
External Data	EPG, PID and SI insertion

Scrambling	
Interface	1x100 Mbps port (Item 6071) 2 x100 Mbps ports (item 6072, 6073)
Scrambling Algorithms	CSA
SCS	Internal
CAS Connections	Up to 4 different CA systems
Supported CAS	Support major CA systems

Max. TS rate	1.6Gbps (Item 6071) 3.2Gbps (item 6072, 6073, 6076)
EMM Bitrate	Up to 3Mbps

### System management

Interface	1 x 100 Base-TX, RJ45 (Item 6071) 2 x 100 Base-TX, RJ45 (item 6072, 6073, 6076)
NMS Support	Yes
Web-based NMS	Yes
Online Upgrade	Yes
Multiplexing	Support

### Physical & Environment

Input Voltage	90 ~ 264 VAC; -48 VDC (optional)
Power Consumption	Max.45W (Item 6071) Max.90W (item 6072, 6073, 6076)
Rack Space	1 RU
Dimension (WxHxD)	445mm x 44mm x 400mm
Operating Temperature	0 ~ 50°C
Storage Temperature	-40 ~ 70°C
"Relative Operating Humidity"	≤95%
MTBF	≥100,000 hours